

October 31, 2018

Ohio EPA DAPC, Southeast District Office 2195 Front Street Logan, Ohio 43138 FedEx Tracking Number: 8130 3339 6502

RE: Annual Compliance Report 40 CFR 60 Subpart OOOOa: August 2, 2017 - August 2, 2018

Annual Compliance Report 40 CFR 60 Subpart 0000: October 15, 2017 - August 2, 2018

Dear Sirs:

CNX Resources (CNXR) hereby submits the annual compliance report for affected facilities subject to New Source Performance Standards (NSPS) 40 CFR 60 Subparts NSPS 0000 and 0000a.

As specified in 40 CFR 60.5410a, the initial compliance period for a NSPS 0000a affected facility begins on August 2, 2016, or upon initial startup (whichever is later). Similarly, the initial compliance period ends no later than 1 year after the initial startup date of the affected facility or no later than 1 year after August 2, 2016. In accordance with \$60.5420a(b), the annual report is due 90 days after the end of the compliance period (i.e., October 31, 2018). This annual report covers the compliance period from August 2, 2018 through August 2, 2018.

In order to streamline reporting, CNX is submitting NSPS 0000 for the time period October 15, 2017 to August 2, 2018 as a "short-report". This will align the compliance periods for any future reports with facilities subject to NSPS 0000a. Future compliance reports for CNX's affected facilities under both subparts (as applicable) will be submitted in a consolidated report by October 31st of each year, and will cover the prior year's reporting period (August 2 – August 2).

Should you have any questions regarding this report, please contact me by phone at (724) 485-3156 or by email at PatrickFlynn@cnx.com.

Sincerely,

Patrick Flynn

CNX | Air Quality Program Manager

Attachments

cc: US EPA Region V, Air Protection Division

Ralph Metcalfe Federal Building 77 West Jackson Boulevard

Chicago, IL 06064-3511

Via email: R5AirEnforcement@epa.gov

ATTACHMENT - CERTIFICATION

NSPS 0000a Annual Report

Pursuant to 40 CFR §60.5420a(b)

Company Information

§60.5420a(b)(1)

Company	Name:	CNX	Resources

Company Mailing Address:	1000 CONSOL Energy Drive	Canonsburg	PA	15317
	Street Address	City	State	Zip Code

For information regarding this report please contact the following:

Contact Name: Patrick Flynn

Contact Phone Number: 724-485-3156
Contact Email Address: PatrickFlyno@cox.com

Reporting Period

Compliance Period Start Date: August 3, 2017
Compliance Period End Date: August 2, 2018
Date Report Submitted by: October 31, 2018

Certification By a Certifying Official

<u>Statement of Certification:</u> Based on information and belief formed after reasonable inquiry, the statements and information in this document are true, accurate and complete.

-	Name of Certifying Official: Craig Neal	
Second	Title of Certifying Official: Vice President Operations	
Sommer	Email Address: CraigNeal@cnx.com	
Second	Phone Number: 724-485-4000	
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0000000	Simplifie Date	

NSPS 0000 Annual Report

Pursuant to 40 CFR §60.5420(b)

Company Information

§60.5420(b)(1)

Company	Name:	CNX	Resources

Company Mailing Address: 1000 CONSOL Energy Drive Canonsburg PA 15317
Street Address City State Zip Code

For information regarding this report please contact the following:

Contact Name: Patrick Flynn

Contact Phone Number: 724-485-3156

Contact Email Address: PatrickFlynn@cnx.com

Reporting Period

Compliance Period Start Date: October 15, 2017
Compliance Period End Date: August 2, 2018
Date Report Submitted by: October 31, 2018

Certification By a Certifying Official

<u>Statement of Certification:</u> Based on information and belief formed after reasonable inquiry, the statements and information in this document are true, accurate and complete.

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	Name of Certifying Official: Craig Neal
L	Title of Certifying Official: Vice President Operations
	Email Address: CraigNeal@cax.com

	Phone Number: 724-485-4000

	Cang Neal
l	/ Signature:
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ATTACHMENT - LIST OF AFFECTED FACILITIES

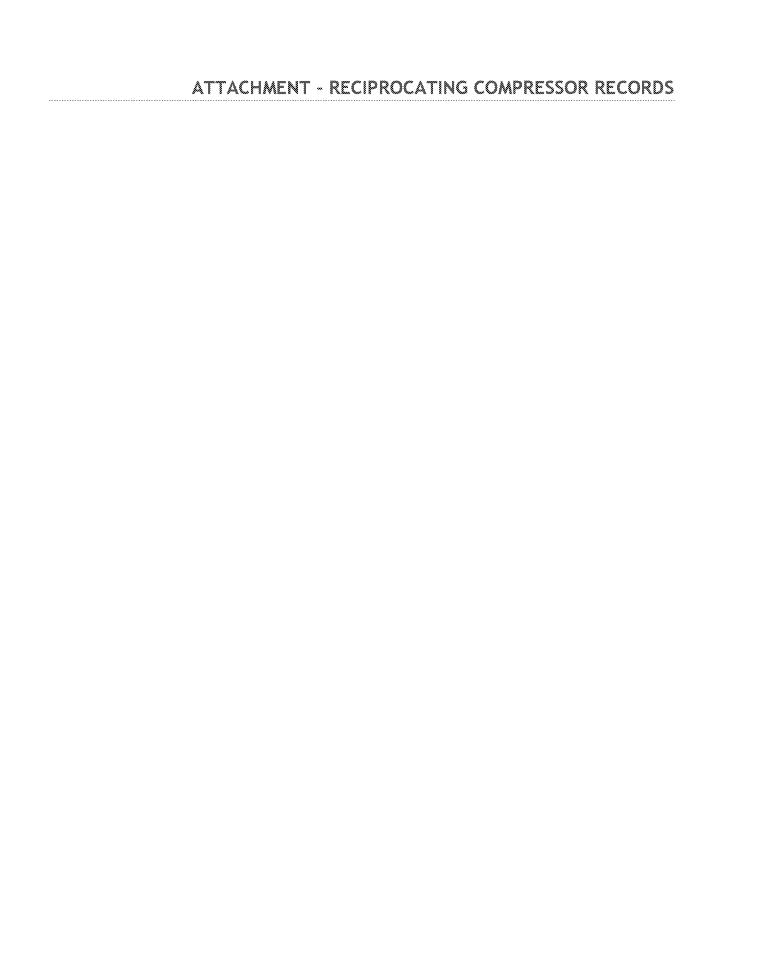
List of Affected Facilities §60.5420(b) and §60.5420a(b)

													Affected Facilit an "X" in every col	y Type(s) amn that applies)	
API Number	Facility / Well Name	Well / Equipment Name	Legal Entity	Latitude	Longitude	State Number	State	County Number	County	Region	Well	Reciprocating Compressor	Pneumatic Controller	Collection of Fugitive Emission Components at a Well Site	Collection of Fugitive Emission Components at a Compressor Station
	NBL 36	NBL 36	CNX Resources				Ohio			VADEQ SWRO				х	
	NBL 39	NBL 39	CNX Resources				Ohio			VADEQ SWRO				X	
	Switz 5	Switz5	CNX Resources			34	Ohio			VADEQ SWRO				X	
	Switz 16	Switz16	CNX Resources			34	Ohio			VADEQ SWRO				х	
***	Switz6	Switz6	CNX Resources	39.828806	-80.916622	34	Ohio	111	Monroe	OEPA SEDO		X		X	
34-111-24673	SWITZ28HHSU	SWITZ28	CNX Resources	39.823241	39.823241	34	Ohio	111	Monroe	OEPA SEDO	X			Х	
34-111-24674	SWITZ28BHSU	SWITZ28	CNX Resources	39.823241	39.823241	34	Ohio	111	Monroe	OEPA SEDO	X			X	
34-111-24675	SWITZ28DHSU	SWITZ28	CNX Resources	39.823241	39.823241	34	Ohio	111	Monroe	OEPA SEDO	X			X	
34-111-24721	SWITZ26AHSU	SWITZ26	CNX Resources	39.823291	39.823291	34	Ohio	111	Молгое	OEPA SEDO	X			X	
34-111-24718	SWITZ26DHSU	SWITZ26	CNX Resources	39.823291	39.823291	34	Ohio	111	Monroe	OEPA SEDO	X			х	
34-111-24719	SWITZ26CHSU	SWITZ26	CNX Resources	39.823291	39.823291	34	Ohio	111	Monroe	OEPA SEDO	X			X	
34-111-24720	SWITZ26BHSU	SWITZ26	CNX Resources	39.823291	39.823291	34	Ohio	111	Monroe	OEPA SEDO	X			х	
34-111-24684	SWITZ11PHSU	SWITZ11	CNX Resources	39.824543	39.824543	34	Ohio	111	Monroe	OEPA SEDO	X			Х	
34-111-24687	SWITZ11LHSU	SWITZ11	CNX Resources	39.824543	39.824543	34	Ohio	111	Monroe	OEPA SEDO	X			X	
34-111-24685	SWITZ11NHSU	SWITZ11	CNX Resources	39.824543	39.824543	34	Ohio	111	Мопгое	OEPA SEDO	X			X	
34-111-24686	SWITZ11JHSU	SWITZ11	CNX Resources	39.824543	39.824543	34	Ohio	111	Monroe	OEPA SEDO	X			х	
34-111-24762	SWITZ18FHSU	SWITZ18	CNX Resources	39.848272	39.848272	34	Ohio	111	Monroe	OEPA SEDO	X			X	
34-111-24764	SWITZ18DHSU	SWITZ18	CNX Resources	39.848272	39.848272	34	Ohio	111	Monroe	OEPA SEDO	X			х	
34-111-24763	SWITZ18BHSU	SWITZ18	CNX Resources	39.848272	39.848272	34	Ohio	111	Monroe	OEPA SEDO	X			Х	
34-111-24745	SWITZ7DHSU	SWITZ7	CNX Resources	39.841471	39.841471	34	Ohio	111	Monroe	OEPA SEDO	X			X	
34-111-24747	SWITZ7FHSU	SWITZ7	CNX Resources	39.841471	39.841471	34	Ohio	111	Молгое	OEPA SEDO	X			х	
34-111-24746	SWITZ7BHSU	SWITZ7	CNX Resources	39.841471	39.841471	34	Ohio	111	Monroe	OEPA SEDO	X			х	
34-111-24672	SWITZ28FHSU	SWITZ28	CNX Resources	39.823241	39.823241	34	Ohio	111	Monroe	OEPA SEDO	X			X	



Well Completion Records §60.5420a(c)

API Number	Facility / Well Name	Well / Equipment Name	Legal Entity	Latitude	Longitude	Date and Time of Ouset of Flowback Following Hydraulic Fracturing	Date and Time of Each Attempt to Direct Flowback to a Separator	Date and Time of Each Occurrence of Returning to the Initial Flowback Stage	Date and Time for the Startup of Production	Duration of Flowback in Hours	Hours (Not required for	Disposition of Recovery (Not required for delineation, wild cat, or low-pressure gas wells)	Duration of Combustion in Hours	Duration of Venting in Hours	Reason for Venting in lieu of Capture or Combustion
34-111-24673	SWITZ28HHSU	SWITZ28	CNX Resources	39.823241	-80.942416	9/17/2017 23:00	9/18/2017 15:00		2/26/2018 10:00	3,753.0	3,753.0	To Sales	0	0	
34-111-24674	SWITZ28BHSU	SWITZ28	CNX Resources	39.823241	-80.942416	9/18/2017 0:00	9/18/2017 1:30		2/26/2018 10:30	3,768.5	3,768.5	To Sales	0	0	
34-111-24675	SWITZ28DHSU	SWITZ28	CNX Resources	39.823241	-80.942416	9/18/2017 22:00	9/18/2017 23:30		2/28/2018 6:00	3,498.0	3,494.0	To Sales	4	0	
34-111-24721	SWITZ26AHSU	SWITZ26	CNX Resources	39.823291	-80.964327	10/28/2017 9:30	10/28/2017 11:30		11/19/2017 13:00	531.5	531.5	To Sales	0	0	
34-111-24718	SWITZ26DHSU	SWITZ26	CNX Resources	39.823291	-80.964327	10/26/2017 19:30	10/28/2017 15:30		11/20/2017 13:00	593.5	593.5	To Sales	0	0	
34-111-24719	SWITZ26CHSU	SWITZ26	CNX Resources	39.823291	-80.964327	10/26/2017 19:00	10/28/2017 13:30		11/17/2017 13:30	522.5	522.5	To Sales	0	0	
34-111-24720	SWITZ26BHSU	SWITZ26	CNX Resources	39.823291	-80.964327	10/26/2017 17:30	10/28/2017 9:00		11/20/2017 15:00	597.5	597.5	To Sales	0	0	
34-111-24684	SWITZ11PHSU	SWITZ11	CNX Resources	39.824543	-80.945068	11/19/2017 16:00	11/19/2017 16:00	11/19/2017 16:30	12/1/2017 19:00	291.0	291.0	To Sales	0	0	
34-111-24687	SWITZ11LHSU	SWITZ11	CNX Resources	39.824543	-80.945068	11/19/2017 13:00	11/19/2017 18:00		12/2/2017 14:30	313.5	313.5	To Sales	0	0	
34-111-24685	SWITZ11NHSU	SWITZ11	CNX Resources	39.824543	-80.945068	11/19/2017 13:00	11/19/2017 13:00	11/19/2017 13:25	12/1/2017 18:00	293.0	293.0	To Sales	0	0	
34-111-24686	SWITZ11JHSU	SWITZ11	CNX Resources	39.824543	-80.945068	11/19/2017 15:00	11/19/2017 18:00		12/1/2017 18:00	291.0	291.0	To Sales	0	0	
34-111-24762	SWITZ18FHSU	SWITZ18	CNX Resources	39.848272	-80.894479	1/27/20188:00	1/27/2018 10:00		2/13/2018 21:30	421.5	421.5	To Sales	0	0	
34-111-24764	SWITZ18DHSU	SWITZ18	CNX Resources	39.848272	-80.894479	1/27/2018 13:00	1/27/2018 14:00		2/13/2018 19:00	414.0	414.0	To Sales	0	0	
34-111-24763	SWITZ18BHSU	SWITZ18	CNX Resources	39.848272	-80.894479	1/27/2018 15:00	1/27/2018 16:30		2/13/2018 16:00	409.0	409.0	To Sales	0	0	
34-111-24745	SWITZ7DHSU	SWITZ7	CNX Resources	39.841471	-80.916402	1/22/2018 22:30	2/4/2018 19:00		2/19/2018 17:30	667.0	667.0	To Sales	0	0	
34-111-24747	SWITZ7FHSU	SWITZ7	CNX Resources	39.841471	-80.916402	2/4/2018 12:00	2/5/2018 1:00		2/19/2018 14:00	362.0	362.0	To Sales	0	0	
34-111-24746	SWITZ7BHSU	SWITZ7	CNX Resources	39.841471	-80.916402	2/4/2018 15:00	2/4/2018 17:30		2/20/2018 6:00	375.0	375.0	To Sales	0	0	
34-111-24672	SWITZ28FHSU	SWITZ28	CNX Resources	39.823241	-80.942416	9/28/2017 0:30	9/30/2017 12:30		3/14/2018 17:00	2,795.5	2,775.5	To Sales	20	0	



Reciprocating Compressor Affected Facilities \$60.5420(b)(4) and \$60.5420a(b)(4)

	T		1		[T				T		Operation	Tracking 60.5420(b)(4)(i)	
Facility Name	Equipment ID	Legal Entity	Reporting Period	Latitude	Longitude	State	County Number	County	Region	Applicable NSPS Regulation	Tracking Operations (Hours or Months)	Actual Time Reported (Hours or Months)	What is the start date?	Notes on start date	Deviations to Report? (If deviations occurred put an "X". If not leave blank)
Switz6	Flash Gas Compressor	CNX Resources	10-15-17 to 8-2-18	39.828806	-80.916622	Ohio	111	Monroe	SEDO	0000	Hours	16,970	1/22/2015	Date represents initial startup of the compressor. No rod packing replacement occurred during the reporting period.	No deviations

^{*}Reciprocating compressor affected facilities are located between the wellhead and the point of custody transfer to the natural gas transmission and storage segment. Recip. compressors located on a well site are not an affected facility (§60.5365(c) and §60.5365a(c))
*Per 0000 (60.5420(b)(4)(i)), we used the latest date from the following: Startup of the compressor, date of the latest compressor rod packing, start of the report period 10/15/2012

ATTACHMENT - COLLECTION OF FUGITIVE EMISSION COMPONENTS AT A WELL SITE

											Survey Information						
Facility Name		Date (b)(7)(i)	Beginning Time (b)(7)(ii)	End Time (b)(7)(ii)	Name of OGI Operator (b)(7)(iii)	Experience of OGl Operator (b)(7)(iii)	Maximum Wind Speed (b)(7)(iv)	Monitoring Instrument (b)(7)(v)	Deviations (or Statement of No Deviations) (b)(7)(vi)	(b)(7)(vii)	Number and Type of Components Not Repaired as Required (b)(7)(viii)	Number and Type of DTM & UTM Components Monitored (b)(7)(ix)	Leak Repairs (b)(7)(x)	Number and Type of Components Placed on DOR (b)[77[cd]	Explanation for DOR (b)(7)(xi)	Type of Instrument Used to Resurvey a Repaired Component (not during the initial finding) (b)(7)(xii)	Comments
NBL 36	CNX Resources	12/7/2017	3:13 PM	3:40 PM	Kevin Ice		36°F - 36°F F, Partly sunny with clouds, 5-8 mph mph	GF320 S/N 44401741	No deviations	One (1) Leak on Norriseal Liquid Level Controller on LPS (lower unit on side closes to site berm) (Tag #1)	None	Not Applicable	Repairs completed 12/8/2017 and verified on 12/12/2017	None	Not Applicable	GF320	
NBL 36	CNX Resources	6/21/2018	4:07 AM	4:31 AM	Kevin Ice	3 years	73°F F, Overcast, 0- 1 mph mph	GF320 S/N 44401741	No deviations	One (1) Tank 1 verdgited pallet One (1) Tank 2 verdgited pallet One (1) Tank 2 verdgited pallet One (1) Tank 3 verdgited pallet One (1) Tank 4 verdgited pallet One (2) Tank 5 verdgited pallet One (3) Tank 5 verdgited pallet One (3) Tank 10 verdgited pallet One (1) Tank 10 verdgited pallet	None	Not Applicable	Repairs completed 6/26/2016 and verified on 6/26/2018	None	Not Applicable	GF320	
NEL 39	CNX Resources	12/7/2017	5:20 PM	5:39 PM	Kevin Ice / 3 yrs experience	3 years	32°F - 33°F F, Cloudy/Overcast, 3- 6 mph mph		No deviations	None	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
NEL 39	CNX Resources	6/21/2018	4:07 AM	4:31 AM	Kevin Ice / 3 yrs experience	3 years	70°F F, Overcast / Light Sprinkle, 3-4 mph mph	GF320 S/N 44401741	No deviations	One (1) Tank 5 enardo relief valve One (1) Tank 3 weighted pallet	None	Not Applicable	Repairs completed 6/26/2018 and verified on 6/26/2018	None	Not Applicable	GF320	
SWITZ-5	CNX Resources	11/1/2017	1:30 PM	1:54 PM	Kevin Ice/ 3 yrs experience	3 years	40°F-46°F F, Cloudy/Overcast, 0- 1 mph mph	GF320 S/N 44401741	No deviations	None	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
SWITZ-5	CNX Resources	6/25/2018	1:13 p.m.	1:24 p.m.	Kevin Ice/3 yrs experience & Jason Harding (Camera #2)/2 yrs experience	Kevin Ice 3 years Jason Harding 2 years	75°F F, Claudy, 0-4 mph mph	GF320 S/N 44401741	Yes - See Comments	One (1) B Well GPU center cabinet kim ray dump controller	None	Not Applicable	Repairs completed 6/29/2018 and verified on 6/29/2018	None	Not Applicable	GF320	Video record file with initial leak record was corrupt
SWITZ-6	CNX Resources	12/7/2017	10:41 a.m.	11:07 а.т.	Kevin Ice/ 3 yrs experience	3 years	36°F - 37°F F, Cloudy/Overcast, 5- 8 mph mph		No deviations	None	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
SWITZ-6	CNX Resources	6/25/2018	11:44 a.m.	12:16 p.m.	Kevin Ice (Camera 1) & Jason Harding (Camera #2)	Kevin Ice 3 years Jason Harding 2 years	70°F F, Partly Cloudy, 0-3.6 mph mph	GF320 S/N 44401741	No deviations	One (1) Weighted Pallet tank #5 One (1) Weighted Pallet tank #9 One (1) Weighted Pallet tank #10	None	Not Applicable	e Repairs completed 6/25/2018 and verified on 6/25/2018	None	Not Applicable	GF320	
SWITZ-7	CNX Resources	2/27/2018	4:24 p.m.	4:45 p.m.	Kevin Ice/ 3 years experience	3 years	62°F F, Sunny/light clouds, 0 - 5.9 mph mph		No deviations	None	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
SWITZ-7	CNX Resources	6/25/2018	3:23 p.m.	3:34 p.m.	Kevin Ice (Camera 1) & Jason Hanling (Camera #2)	Kevin Ice 3 years Jason Harding 2 years	74°F F, Overcast, 0 - 1 mph mph	GF320 S/N 44401741	No deviations	None	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
	CNX Resources		9:50 a.m.	10:11 a.m.	Kevin Ice	3 years	Cloudy/Overcast, 4- 7 mph mph	44401741	No deviations	None	Not Applicable		Not Applicable			Not Applicable	
SWITZ-11	CNX Resources		1:35 p.m.	1:51 p.m.	Kevin Ice (Camera 1) & Jason Harding (Camera #2)	Kevin Ice 3 years Jason Harding 2 years	75°F F. Cloudy, 0 - 5.2 mph mph	GF320 S/N 44401741	No deviations	None	Not Applicable		Not Applicable	Not Applicable	Not Applicable	Not Applicable	
SWITZ-16	CNX Resources	11/1/2017	3:00 PM	3:18 PM	Kevin Ice	3 years	4 mph mph	44401741	No deviations	None	Not Applicable		Not Applicable	Not Applicable		Not Applicable	
SWITZ-16	CNX Resources	6/25/2018	12:36 p.m.	1:06 p.m.	Kevin Ice (Camera 1) & Jason Harding (Camera #2)	Kevin Ice 3 years Jason Harding 2 years	73°F F, Partly Cloudy, 4 mph mph	GF320 S/N 44401741	No deviations	One (1) Leak at F Well GPU center cabinet kim ray dump controller One (1) Leak at J Well GPU center cabinet kim ray dump controller	None	Not Applicable	Repairs completed 6/29/2018 and verified on 6/29/2018		Not Applicable	GF320	
	CNX Resources		3:22 p.m.	3:47 p.m.	Kevin Ice	3 years	60 °F F, sumny - few clouds, 5.7 - 11.4mph mph	44401741	No deviations	None	Not Applicable		Not Applicable	Not Applicable		Not Applicable	
SWITZ-18	CNX Resources		3:44 p.m.	3:58 p.m.	Kevin Ice (Camera 1) & Jason Harding (Camera #2)	Kevin Ice 3 years Jason Harding 2 years	73 °F F, Cloudy, 1.2- 3.2 mph mph	44401741		One (1) Leak at ball valve center kimray (F well GPU) One (1) Leak at nipple on fuel gas for center kimray (D well GPU)	None		e Repairs completed 6/29/2016 and verified on 6/29/2018	None		GF320	
SWITZ-26			9:03 a.m.	9:22 a.m.	Kevin Ice	3 years	29°F - 30°F F, Clear Skies, 2-5 mph mph	44401741	No deviations	None	Not Applicable		Not Applicable	Not Applicable		Not Applicable	
SWITZ-26	CNX Resources		2:39 p.m.	2:57 p.m.	Kevin Ice (Camera 1) & Jason Hanling (Camera #21	Kevin Ice 3 years Jason Harding 2 years 3 years	73°F F, Overcast, 1- 3.7 mph mph	44401741	No deviations	None	Not Applicable		Not Applicable	Not Applicable		Not Applicable	
SWITZ-28	CNX Resources	3/22/2018	11:30 a.m.	11:49 a.m.	Kevin Ice	3 years	33 °F F, Cloudy, 5 - 7.6 mph mph	GF320 S/N 44401741	No deviations	None	Not Applicable	Not Applicable	Not Applicable	Not Applicable		Not Applicable	
SWITZ-28	CNX Resources	6/25/2018	1:54 p.m.	2:07 p.m.	Kevin Ice (Camera 1) & Jason Harding (Camera #2)	Kevin Ice 3 years Jason Harding 2 years	73 °F F, Cloudy, 0- 5.1 mph mph	GF320 S/N 44401741	No deviations	One (1) E well GPU center cabinet kimray	None	Not Applicable	Repairs completed 6/29/2018 and verified on 6/29/2018	None	Not Applicable	GF320	

1 of 1

10/31/2018

^{1.} No components at any facility are currently designated as DTM or UTM.

		CNX	Gas - OH O	perations -	LDAR Trackir	ng Spreadsheet			
acility Surveyed:	NBL-36	Wind Speed:	5.8	mph	Well Name:	Well API #:	TIL Date:	Well Type	Dry/Wet
ate of Survey:	12/7/2017	Ambient Temp:	36*F	- 38°F	NBL-36ACHSU	3412124510	10/18/2015	Utica	Wet
	Kevin Ice	Sky Conditions:	Partly sunny	with clouds	NBL-36BHSU	3412124509	10/13/2015	Utica	Wet
	kevinice@consolenergy.com Mobile # (724) 833-3947	Daily Verification Check:	Distance of 40th Mechanic MOV (NBL-36CHSU	3412124508	10/19/2015	Utica	Wet
		Survey Start Time :	3:13						
		Survey End Time :	3,40	p.m.			Equ	ipment Surveyed:	
		OGI Camera Specs:	GF320 S/N	1 444(0.74)		GPU	Well Head	Tank	Other
			·			У	X	×	X
Vere there deviations from the	monitoring plan (Yes/No):	No	1						
			-						
		1	1	ı	Follow up	1		1	
					ronow up	Instrument Used for			
omponent Tag # / FLIR Video ID	Description of Component	Comments	First Attempt at Repair	Date Repair Completed	Demonstration Conducted	Resurvey/ FLIR Video ID	Delay of Repair Notes	И	lotes:
ID Tag #1 BAINL MAINT PADA	Description of Component Norriseal Liquid Level Controller on LPS (lower unit on side clases to site berm)	Comments Low Pressure Separator Unit			Demonstration Conducted 12/12/2017		Delay of Repair Notes	Repair attempt was replacement of unit. No leaks detected after repa tequipment/pad was in production	of the Norriseal liquid level contr ir during inspection on 12-12-17
Tag #1 MOV_9097.MP4	Norriseal Liquid Level Controller on LPS (lower		at Repair	Completed	Conducted	Resurvey/ FLIR Video ID	Delay of Repair Notes	Repair attempt was replacement of unit. No leaks detected after repa	of the Norriseat liquid tevel cont is during inspection on 12-12-13
Tag #1 MOV_9097.MP4	Norriseal Liquid Level Controller on LPS (lower		at Repair	Completed	Conducted	Resurvey/ FLIR Video ID	Delay of Repair Notes	Repair attempt was replacement of unit. No leaks detected after repa	of the Norriseal liquid level contr ir during inspection on 12-12-17
Tag #1 MOV_0097.MP4	Norriseal Liquid Level Controller on LPS (lower		at Repair	Completed	Conducted	Resurvey/ FLIR Video ID	Delay of Repair Notes	Repair attempt was replacement of unit. No leaks detected after repa	of the Norriseal liquid level contr ir during inspection on 12-12-17
Tag #1 MOV_8697.MP4	Norriseal Liquid Level Controller on LPS (lower		at Repair	Completed	Conducted	Resurvey/ FLIR Video ID	Delay of Repair Notes	Repair attempt was replacement of unit. No leaks detected after repa	of the Norriseal liquid level contr ir during inspection on 12-12-17
ID Tag #1 MOV_0097.MP4	Norriseal Liquid Level Controller on LPS (lower		at Repair	Completed	Conducted	Resurvey/ FLIR Video ID	Delay of Repair Notes	Repair attempt was replacement of unit. No leaks detected after repa	of the Norriseal liquid level cont ir during inspection on 12-12-13
ID Tag #1 MOV_0097.MP4	Norriseal Liquid Level Controller on LPS (lower		at Repair	Completed	Conducted	Resurvey/ FLIR Video ID	Delay of Repair Notes	Repair attempt was replacement of unit. No leaks detected after repa	of the Norriseal liquid level contr ir during inspection on 12-12-17

		CN	(Gas - OH O	perations -	LDAR Trackir	ng Spreadsheet			
Facility Surveyed:	NBL-36	Wind Speed:	0.1	mph	Well Name:	Well API#:	TIL Date:	Well Type	Dry/Wet
Date of Survey:	6/21/2018	Ambient Temp:	7	3°F	NBL-36ACHSU	3412124510	10/18/2015	Utica	Wet
	Kevin Ice	Sky Conditions:	Ove	rcast	NBL-36BHSU	3412124509	10/13/2015	Utica	Wet
	kevinice@cnx.com Mobile # (724) 833-3947	Daily Verification Check:	Distance of 35 ft Merhana MOV 1		NBL-36CHSU	3412124508	10/19/2015	Utica	Wet
	1	Survey Start Time :		a.m.					
		Survey End Time :	4.31	a.m.			Eau	ipment Surveyed:	
		OGI Camera Specs:	GF320 S/N	144401.741		GPU	Well Head	Tank	Other
		<u> </u>			ı	×	X	×	X
Component Tag # / FLIR Video ID	Description of Component	Comments	First Attempt at Repair	Date Repair Completed	Follow up Demonstration Conducted	Instrument Used for Resurvey/ FLIR Video ID	Delay of Repair Notes	No	tes:
MOV_0150.MP4	Tank 1 weighted pallet		6/26/2018	6/26/2018	6/26/2018	GF320/ MOV_0164.mp4		Cleaned mating surfaces of gasket an	d flange. (80C - C. Tristano)
MOV_0150.MP4	Tank 2 weighted pallet		5/26/2018	6/26/2018	8/26/2018	GF320/ MOV_0164.mp4		Cleaned mating surfaces of gasket an	d flange. (ROC - C. Tristano)
MOV_0150.MP4	Tank 3 weighted pallet		8/26/2018	6/26/2018	5/26/2018	GF920/ MOV_0164.mp4		Cleaned mating surfaces of gasket an	d flange. (80C - C. Tristane)
MOV_0150.MP4	Tank 4 weighted pallet		6/26/2018	6/26/2018	6/26/2018	67320/ MOV_0164.mp4		Cleaned mating surfaces of gasket an	
	The Communication and the Charles		6/26/2018	6/26/2018	6/26/2018	GF320/ MOV -0164.ms4		Gasket changed to rubber style. (ROC	
MOV_0150.MP4	Tank 5 weighted pallet								
MOV_0150.MP4	Tank 10 weighted pallet		6/26/2018	6/26/2018	6/26/2018	GF320/ MOV_0164.mp4		Cleaned mating surfaces of gasket an	d flange. (80C - C. Tristano)
MOV_0150.MP4 MOV_0150.MP4	Tank 10 weighted pallet Tank 9 weighted pallet		6/26/2018 6/26/2018	6/26/2018 6/26/2018	6/26/2018 6/26/2018	GF320/ MOV_0164.mp4 GF320/ MOV_0164.mp4		Cleaned mating surfaces of gasket an Cleaned mating surfaces of gasket an	d frange. (ROC - C. Tristano) d frange. (ROC - C. Tristano)
MOV_0150.MP4 MOV_0150.MP4 MOV_0150.MP4	Tank 10 weighted pallet Tank 9 weighted pallet Tank 8 weighted pallet		6/26/2018 6/26/2018 6/26/2018	6/26/2018 6/26/2018 6/26/2018	6/26/2018 6/26/2018 6/26/2018	GF320/ MOV_0164.mp/4 GF320/ MOV_0164.mp/4 GF320/ MOV_0164.mp/4		Cleaned mating surfaces of gasket an Cleaned mating surfaces of gasket an Cleaned mating surfaces of gasket an	d flange. (ROC - C. Tristano) d flange. (ROC - C. Tristano) d flange. (ROC - C. Tristano)
MOV_0150.MP4 MOV_0150.MP4	Tank 10 weighted pallet Tank 9 weighted pallet		6/26/2018 6/26/2018	6/26/2018 6/26/2018	6/26/2018 6/26/2018	GF320/ MOV_0164.mp4 GF320/ MOV_0164.mp4		Cleaned mating surfaces of gasket an Cleaned mating surfaces of gasket an	d flange. (ROC - C. Tristano) d flange. (ROC - C. Tristano) d flange. (ROC - C. Tristano)
MOV_0150.MP4 MOV_0150.MP4 MOV_0150.MP4	Tank 10 weighted pallet Tank 9 weighted pallet Tank 8 weighted pallet		6/26/2018 6/26/2018 6/26/2018	6/26/2018 6/26/2018 6/26/2018	6/26/2018 6/26/2018 6/26/2018	GF320/ MOV_0164.mp/4 GF320/ MOV_0164.mp/4 GF320/ MOV_0164.mp/4		Cleaned mating surfaces of gasket an Cleaned mating surfaces of gasket an Cleaned mating surfaces of gasket an	d flange. (ROC - C. Tristano) d flange. (ROC - C. Tristano) d flange. (ROC - C. Tristano)

		CN	X Gas - OH O	perations -	LDAR Trackir	ng Spreadsheet			
acility Surveyed:	NBL-39	Wind Speed:	3-6	mph	Well Name:	Well API#:	TIL Date:	Well Type	Dry/Wet
ate of Survey:	12/7/2017	Ambient Temp:	32°F	- 33°F	NBL-39CHSU	3412124523	2/3/2016	Utica	Wet
	Kevin Ice/ 3 yrs experience	Sky Conditions:	Cloudy/	Overcast	NBL-39DHSU	3412124524	2/2/2016	Utica	Wet
urveyed by:	kevinice@consolenergy.com		Distance of 40ft.	usiner 1.5 (rom)	NBL-39JHSU	3412124518	2/1/2016	Utica	Wet
	Mobile # (724) 833-3947	Daily Verification Check:	Methane MOV_6		NBL-39KHSU	3412124517	2/4/2016	Utica	Wet
		Survey Start Time :	5:20	p.m.					
		Survey End Time :	5:39	p.m.			Equipmo	ent Surveyed:	
		OGI Camera Specs:	GF320 S/N	44401741		GPU	Well Head	Tank	Other
						×	X	×	X
Component Tag # / FLIR Video			First Attempt	Date Repair	Follow up	Instrument Used for			
ID	Description of Component	Comments	at Repair	Completed	Demonstration Conducted	Resurvey/ FLIR Video ID	Delay of Repair Notes	Not	es:
	Description of Component	Comments		Completed	Demonstration Conducted	Resurvey/ FLIR Video ID	Delay of Repair Notes	Not No issues identified	
	Description of Component	Comments		Completed		Resurvey/ FLIR Video ID	Delay of Repair Notes		
	Description of Component	Comments		Completed		Resurvey/ FLIR Video ID	Delay of Repair Notes		
	Description of Component	Comments		Completed		Resurvey/ FLIR Video ID	Delay of Repair Notes		
	Description of Component	Comments		Completed		Resurvey/ FLIR Video ID	Delay of Repair Notes		
	Description of Component	Comments		Completed		Resurvey/ FLIR Video ID	Delay of Repair Notes		
	Description of Component	Comments		Completed		Resurvey/ FLIR Video ID	Delay of Repair Notes		
	Description of Component	Comments		Completed		Resurvey/ FLIR Video ID	Delay of Repair Notes		
	Description of Component	Comments		Completed		Resurvey/ FLIR Video ID	Delay of Repair Notes		

		CN	X Gas - OH O	perations -	LDAR Trackii	ng Spreadsheet			
acility Surveyed:	SWITZ-5	Wind Speed:	0-1	mph	Well Name:	Well API#:	TIL Date:	Well Type	Dry/Wet
ate of Survey:	11/1/2017	Ambient Temp:	40°8	-45°F	SWITZ-5BHSU	34111245860000	8/28/2017	Utica	Dry
	Kevin Ice/ 3 yrs experience	Sky Conditions:	Cloudy/	Overcast	SWITZ-5DHSU	34111245870000	8/29/2017	Utica	Dry
irveyed by:	kevinice@consolenergy.com	Daily Verification Check:	Distance of 75 ft	. using 1.5 (fpm)	SWITZ-5HHSU	34111246030000	8/29/2017	Utica	Dry
	Mobile # (724) 833-3947	Daily Verification Check:	Methane MCV		SWITZ-5JHSU	34111246040000	8/28/2017	Utica	Dry
		Survey Start Time :	1:30) PM					
		Survey End Time :	1:54	I PM			Equip	ment Surveyed:	
		OGI Camera Specs:	GF326 S/N	44401741		GPU	Well Head	Tank	Other
		<u> </u>			•	×	¥	X	Y
ere there deviations from the	e monitoring plan (Yes/No):	No							
Component Tag # / FLIR Video	Description of Component	Comments	First Attempt at Repair	Date Repair Completed	Follow up Demonstration Conducted	Instrument Used for Resurvey/ FLIR Video ID	Delay of Repair Notes	Note	PS:
								No leaks observed	during inspection
					 	·			

						g Spreadsheet			
acility Surveyed:	SWITZ-5	Wind Speed:	£-4	mph	Well Name:	Well API #:	TIL Date:	Well Type	Dry/Wet
ate of Survey:		Ambient Temp:	71		SWITZ-5BHSU	34111245860000	8/28/2017	Utica	Dry
	Kevin Ice/3 yrs experience & Jason Harding (Camera #2)/ 2 yrs experience	Sky Conditions:	Co	udy	SWITZ-5DHSU	34111245870000	8/29/2017	Utica	Dry
rveyed by:	kevinice@cnx.com	Daily Verification Check:	Distance of 49 ft		SWITZ-5HHSU	34111246030000	8/29/2017	Utica	Dry
	Mobile # (724) 833-3947		Methane MOV_0	0.54 mp4	SWITZ-5JHSU	34111246040000	8/28/2017	Utica	Dry
		Survey Start Time :	1:13						
		Survey End Time :	1:24					ipment Surveyed:	
		OGI Camera Specs:	GF320 5/N	44401741		GPU	Well Head	Tank	Other
					•	Х	×	X	×
omponent Tag # / FLIR Video	Description of Component	Comments	First Attempt	Date Repair	Follow up	Instrument Used for	Delay of Renair Notes	Net	ge)
omponent Tag # / FLIR Video			First Attempt	Date Repair		Instrument Used for			
ID	Description of Component	Comments	at Repair	Completed	Demonstration Conducted	Resurvey/ FLIR Video ID	Delay of Repair Notes	Note:	
	R Wall COll contar cubinal bimray duors	Comments Camera #2			Demonstration		Delay of Repair Notes	Note Changed selector plate (plastic to a	
מו	B Well GPU center cabinet kimray dump		at Repair	Completed	Demonstration Conducted	Resurvey/ FLIR Video ID GF320/MOV_0186.mp4	Delay of Repair Notes	Changed selector plate (plastic to a	
מו	B Well GPU center cabinet kimray dump		at Repair	Completed	Demonstration Conducted	Resurvey/ FLIR Video ID GF320/MOV_0186.mp4	Delay of Repair Notes	Changed selector plate (plastic to a	
ID	B Well GPU center cabinet kimray dump		at Repair	Completed	Demonstration Conducted	Resurvey/ FLIR Video ID GF320/MOV_0186.mp4	Delay of Repair Notes	Changed selector plate (plastic to a	
מו	B Well GPU center cabinet kimray dump		at Repair	Completed	Demonstration Conducted	Resurvey/ FLIR Video ID GF320/MOV_0186.mp4	Delay of Repair Notes	Changed selector plate (plastic to a	
מו	B Well GPU center cabinet kimray dump		at Repair	Completed	Demonstration Conducted	Resurvey/ FLIR Video ID GF320/MOV_0186.mp4	Delay of Repair Notes	Changed selector plate (plastic to a	
מו	B Well GPU center cabinet kimray dump		at Repair	Completed	Demonstration Conducted	Resurvey/ FLIR Video ID GF320/MOV_0186.mp4	Delay of Repair Notes	Changed selector plate (plastic to a	
ID	B Well GPU center cabinet kimray dump		at Repair	Completed	Demonstration Conducted	Resurvey/ FLIR Video ID GF320/MOV_0186.mp4	Delay of Repair Notes	Changed selector plate (plastic to a	

Walking Path Denoted By:

					,00000000000000000000000000000000000000	200000000000000000000000000000000000000			
cility Surveyed:	SWITZ-6	Wind Speed:	5-8		Well Name:	Well API#:	TIL Date:	Well Type	Dry/Wet
te of Survey:	12/7/2017	Ambient Temp:		- 37°F	SWITZ-6AHSU	3411124450	12/8/2015	Marcellus	Wet
rveyed by:	Kevin Ice/ 3 yrs experience	Sky Conditions:		Overcast	SWITZ-6BHSU	3411124451	10/18/2016	Utica	Dry
	kevinice@consolenergy.com Mobile # (724) 833-3947	Daily Verification Check:	Distance of 49ft.	using 1.5 (ipm)	SWITZ-6DHSU	3411124505	10/13/2016	Utica	Dry
	Widdle # (724) 833-3947	Survey Start Time :	Methanic MOV 3 10.4		SWITZ-6HHSU	3411124504	10/19/2016	Utica	Dry
		Survey End Time :	11.07		SWITZ-6FHSU	3411124503	10/24/2016	Utica nent Surveyed:	Dry
		OGI Camera Specs:		44401741		GPU	Well Head	Tank	Other
		odi camera specs.	30.322.37.0	**********	l	y X) X	Y	X
ere there deviations from the	monitoring plan (Vos /No):	No					^		^
	5								
omponent Tag # / FLIR Video ID	Description of Component	Comments	First Attempt at Repair	Date Repair Completed	Follow up Demonstration Conducted	Instrument Used for Resurvey/ FLIR Video ID	Delay of Repair Notes	Note	s:
								No Leaks identifia	during curuey
								No Leaks identified	l during survey.
								No Leaks identifier	l during survey.
								No Leaks identified	l during survey.
								No Leaks identified	l during survey.
								No Leaks identifier	d during survey.
								No Leaks identifier	i during survey.
								No Leaks identified	during survey.
								No Leaks identifier	t during survey.
								No Leaks identifier	t during survey.
								No Leaks identifier	t during survey.
								No Leaks identified	t during survey.
								No Leaks identifier	during survey.

		CN	X Gas - OH O	perations -	LDAR Trackir	ng Spreadsheet			
acility Surveyed:	SWITZ-6	Wind Speed:	0-3.6	mph	Well Name:	Well API#:	TIL Date:	Well Type	Dry/Wet
ate of Survey:	6/25/2018	Ambient Temp:	70	γ¢β	SWITZ-6AHSU	3411124450	12/8/2015	Marcellus	Wet
urveyed by:	Kevin Ice (Camera 1) & Jason Harding (Camera #2)	Sky Conditions:	Partiy	Cloudy	SWITZ-6BHSU	3411124451	10/18/2016	Utica	Dry
	kevinice@cnx.com	Daily Verification Check:	Distance of 498.	using 1.5 (ipmi	SWITZ-6DHSU	3411124505	10/13/2016	Utica	Dry
	Mobile # (724) 833-3947	Daily vernication check.	Methane MOV_3		SWITZ-6HHSU	3411124504	10/19/2016	Utica	Dry
		Survey Start Time :	11.44	la.m.	SWITZ-6FHSU	3411124503	10/24/2016	Utica	Dry
		Survey End Time :	12:16					ment Surveyed:	
		OGI Camera Specs:	GF320 S/N	44401741		GPU	Well Head	Tank	Other
						Y	X	X	X
Vere there deviations from the	monitoring plan (Yes/No):	No							
	I	•	-			T T			
omponent Tag # / FLIR Video ID	Description of Component	Comments	First Attempt at Repair	Date Repair Completed	Follow up Demonstration Conducted	Instrument Used for Resurvey/ FLIR Video ID	Delay of Repair Notes	Note	s:
MOV_0155 mp4	Weighted Paliet tank #5	Camera #1	6/25/2018	6/25/2018	6/25/2018	GF320 /MOV_0161.mp4		Gasket flipped over and mating sur	face cleaned. ROC - C. Trista
MOV_0156.mp4	Weighted Paliet tank #9	Camera #1	6/25/2018	6/25/2018	6/25/2018	GF320 /MOV_0160 mp4		Gasket flipped over and mating sur	face cleaned. ROC - C. Trista
MOV_0157.mp4	Weighted Pallet tank #10	Camera #1	6/25/2018	6/29/2018	6/25/2018	GF320 /MOV_0160.mp4		Gasket filoped over and mating sur	face cleaned. ROC - C. Trista:
		1				1			
								4	

		CN	Gas - OH O	perations -	LUAK ITACKII	ng Spreadsheet			
acility Surveyed:	SWITZ-7	Wind Speed:	0.5	9 mph	Well Name:	Well API #:	TIL Date:	Well Type	Dry/Wet
Date of Survey:	2/27/2018	Ambient Temp:	ě.	2°F	SWITZ-7BHSU	34111247450000	2/20/2018	Utica	Dry
	Kevin Ice/ 3 years experience	Sky Conditions:	Sunny/lij	ght clouds	SWITZ-7DHSU	34111247460000	2/20/2018	Utica	Dry
Surveyed by:	kevinice@cnx.com	Daily Verification Check:	Distance of 45 ft	usins 1.5 (lam)	SWITZ-7FHSU	34111247470000	2/20/2018	Utica	Dry
	Mobile # (724) 833-3947	Daily Verification Check:	Methane MOV_						
		Survey Start Time :	4:24	pm.					
		Survey End Time :	4:43	p.m.			Equipr	nent Surveyed:	
		OGI Camera Specs:	GF320 S/N	44401741	1	GPU	Well Head	Tank	Other
		•	·····		•	Х	×	Х	X
Were there deviations from th	e monitoring plan (Yes/No):	No				to control of the con			***************************************
Component Tag # / FLIR Video	Description of Component	Comments	First Attempt	Date Repair Completed	Follow up Demonstration	Instrument Used for Resurvey/ FLIR Video ID	Delay of Repair Notes	No	tes:
ID	,		at Repair	combiered	Conducted	Resurvey/ FLIK VIGEO ID			
ID			at kepair	Completed	Conducted	Resurvey, FLIK Video ID		No leaks	observed
ID	, ,		ат кераіг	completed	Conducted	Resurvey/ FLIR Video ID		No leaks	observed
ID			at Kepair	Completed	Conducted	RESURVEY/ FLIK VIGEO ID		No leaks ***INITIAL SITE INSP	
ID			at kepair	Completed	Conducted	resurvey, FLIR Video ID			
ID			at kepair	Completed	Conducted	Resurvey/ FLIK Video ID			
ID			ат кераіг	Completed	Conducted	nesurvey/ FLIK Video ID			
ID			ат кераіг	Completed	Conducted	Resurvey/ FLIR Video ID			
ID			ат кераіг	Completed	Conducted	nesurvey/ FLIR Video ID			
ID			ат кераіг	Completed	Conducted	nesurvey/ FLIR Video ID			
			ат кераіг	Completed	Conducted	nesurvey/ FLIR Video ID			
ID			at kepair	Completed	Conducted	RESURVEY/ FLIR VIGEO ID			
ID			at kepair	Completed	Conducted	Resurvey/ FLIR Video ID			

		CIN	Gas - OH O	perations -	LUAK Trackir	ng Spreadsheet			
acility Surveyed:	SWITZ-7	Wind Speed:	0 - 3	mph	Well Name:	Well API#:	TIL Date:	Well Type	Dry/Wet
ate of Survey:	5/25/2018	Ambient Temp:	7.	4°F	SWITZ-7BHSU	34111247450000	2/20/2018	Utica	Dry
	Kevin Ice (Camera 1) & Jason Harding (Camera #2)	Sky Conditions:	Ove	rcast	SWITZ-7DHSU	34111247460000	2/20/2018	Utica	Dry
ırveyed by:	kevinice@cnx.com	Daily Verification Check:	Distance of 49 ft	using 1.5 (sm)	SWITZ-7FHSU	34111247470000	2/20/2018	Utica	Dry
	Mobile # (724) 833-3947	Daily Vermeadon Check.	Methane MOV_	9154.mp4					
		Survey Start Time :	3/23	pm.					
		Survey End Time :	3,34					ipment Surveyed:	
		OGI Camera Specs:	GF320 S/N	44401741		GPU	Well Head	Tank	Other
						Х	Х	Х	Х
. T. W. Crushard				Date Repair	Follow up	Instrument Used for			
omponent Tag # / FLIR Vide ID	Description of Component	Comments	First Attempt at Repair	Completed	Demonstration Conducted	Resurvey/ FLIR Video ID	Delay of Repair Notes	Not	es:
	Description of Component	Comments					Delay of Repair Notes	No leaks observed	
	Description of Component	Comments					Delay of Repair Notes		during inspection
	Description of Component	Comments					Delay of Repair Notes	No leaks observed Camera #2 S/N 474401208 GHB20 Doily verification check completed	during inspection

		CN	Gas - OH O	perations -	LUAK Trackir	ng Spreadsheet			
Facility Surveyed:	SWITZ-11	Wind Speed:	4.7	mph	Well Name:	Well API#:	TIL Date:	Well Type	Dry/Wet
Date of Survey:	12/7/2017	Ambient Temp:		- 37°F	SWITZ-11JHSU	34111246860000	12/2/2017	Utica	Dry
	Kevin Ice	Sky Conditions:	Cloudy/	Overcast	SWITZ-11LHSU	34111246870000	12/1/2017	Utica	Dry
Surveyed by:	kevinice@consolenergy.com	Daily Verification Check:	Distance of Abit.	using 1.5 (lam)	SWITZ-11NHSU	34111246850000	12/1/2017	Utica	Dry
	Mobile # (724) 833-3947	Daily Vernication Creck:	Methane MOV_	0090.mp4	SWITZ-11PHSU	34111246840000	12/1/2017	Utica	Dry
		Survey Start Time :	9:50	am.					
		Survey End Time :	10:1			_		ent Surveyed:	
		OGI Camera Specs:	GF328 S/N	44401741		GPU	Well Head	Tank	Other
					-	Х	X	Х	X
Were there deviations from th	e monitoring plan (Yes/No):	No							
Component Tag # / FLIR Video ID	Description of Component	Comments	First Attempt at Repair	Date Repair Completed	Follow up Demonstration Conducted	Instrument Used for Resurvey/ FLIR Video ID	Delay of Repair Notes	Note	
								INITIAL SITE INSPE	CTION AFTER TIL
						<u> </u>		No leaks were identifie	ed during FUR survey
					1				

			CGGS ON O	peracions -	EDAN HOCKII	ng Spreadsheet			
acility Surveyed:	SWITZ-11	Wind Speed:	0.5.	2 mph	Well Name:	Well API #:	TIL Date:	Well Type	Dry/Wet
ate of Survey:	5/25/2018	Ambient Temp:	7.	3°F	SWITZ-11JHSU	34111246860000	12/2/2017	Utica	Dry
	Kevin Ice (Camera 1) & Jason Harding (Camera #2)	Sky Conditions:	Clo	udy	SWITZ-11LHSU	34111246870000	12/1/2017	Utica	Dry
irveyed by:	kevinice@cnx.com	Daily Verification Check:	Distance of 49 ft	using 1.5 (lom)	SWITZ-11NHSU	34111246850000	12/1/2017	Utica	Dry
	Mobile # (724) 833-3947	Daily Vernication Check.	Methane MOV_	3154.mp4	SWITZ-11PHSU	34111246840000	12/1/2017	Utica	Dry
		Survey Start Time :	1189	pm.					
		Survey End Time :		p.m.			Equ	ipment Surveyed:	
		OGI Camera Specs:	GF320 S/N	44401741		GPU	Well Head	Tank	Other
					-	Х	Х	×	×
					Follow up				
omponent Tag # / FLIR Video			First Attempt	Date Repair		Instrument Used for			
omponent rag # / FLIK Video	Description of Component	Comments	at Repair	Completed	Demonstration Conducted	Resurvey/ FLIR Video ID	Delay of Repair Notes	Note	es:
	Description of Component	Comments					Delay of Repair Notes	Noteaks observed	
	Description of Component	Comments					Delay of Repair Notes		during inspection at distance of "38" with us
	Description of Component	Comments					Delay of Repair Notes	No leaks observed Camera #2 S/N 474401208 GFB20 Daily verification check completed	during inspection at distance of "38" with us

				p=:.=:10110		ng Spreadsheet			
acility Surveyed:	SWITZ-16	Wind Speed:	4 8	nph	Well Name:	Well API#:	TIL Date:	Well Type	Dry/Wet
ate of Survey:	6/25/2018	Ambient Temp:	73	*p	SWITZ-16BHSU	34111245680000	7/3/2017	Utica	Dry
	Kevin Ice (Camera 1) & Jason Harding (Camera #2)	Sky Conditions:	Partiy	Cloudy	SWITZ-16DHSU	34111245660000	7/2/2017	Utica	Dry
rveyed by:	kevinice@cnx.com	Daily Verification Check:	Distance of 49 ft	using 1.5 (lom)	SWITZ-16FHSU	34111245670000	7/2/2017	Utica	Dry
	Mobile # (724) 833-3947	uany vernication check:	Methane MCV_0	1154.mp4	SWITZ-16HHSU	34111245690000	7/2/2017	Utica	Dry
		Survey Start Time :	12:36	(β.00).	SWITZ-16JHSU	34111245650000	7/8/2017	Utica	Dry
		Survey End Time :	1:06	p.m.		_	Equ	ipment Surveyed:	
		OGI Camera Specs:	GF320 S/N	44401741		GPU	Well Head	Tank	Other
		**************************************			•	×	X	×	X
Component Tag # / FLIR Video	Description of Component	Comments	First Attempt at Repair	Date Repair Completed	Follow up Demonstration	Instrument Used for Resurvey/ FLIR Video ID	Delay of Repair Notes	No	ites:
ID					Conducted				
MOV_92960 mp4	F Well GPU center cabinet kimray dump controller	Camera #2	6/29/2018	6/29/2018	Conducted 6/29/2018	GF320/MCV_0185.mp4 Camera #1		Changed selector plate (plastic to CNX - J. Zachweija	aluminum).
MOV_92960 mp4						GF320/MOV_0185.mp4		CNX - J. Zachweija Changed selector plate (plastic to CNX - J. Zachweija	aluminum).
44OV_92960 mp4	controller		6/29/2018	6/29/2018	6/29/2018	GF320/MOV_0185.mp4 Camera #1 GF320 /MOV_0184.mp4		CNX - 1. Zachweija Changed selector plate (plastic to CNX - 3. Zachweija **Fishing Operation on H Well, ti	aluminum). hus it & associated equipme
44OV_92960 mp4	controller		6/29/2018	6/29/2018	6/29/2018	GF320/MOV_0185.mp4 Camera #1 GF320 /MOV_0184.mp4		CNX - 1. Zachweija Changed selector plate (plastic to CNX - 3. Zachweija **Fishing Operation on H Well, ti	aluminum).
MOV_92960 mp4	controller		6/29/2018	6/29/2018	6/29/2018	GF320/MOV_0185.mp4 Camera #1 GF320 /MOV_0184.mp4		CNX - 1. Zachweija Changed selector plate (plastic to CNX - 3. Zachweija **Fishing Operation on H Well, ti	aluminum). hus it & associated equipme
MOV_92960 mp4	controller		6/29/2018	6/29/2018	6/29/2018	GF320/MOV_0185.mp4 Camera #1 GF320 /MOV_0184.mp4		CNX - 1. Zachweija Changed selector plate (plastic to CNX - 3. Zachweija **Fishing Operation on H Well, ti	aluminum). hus it & associated equipme
44OV_92960 mp4	controller		6/29/2018	6/29/2018	6/29/2018	GF320/MOV_0185.mp4 Camera #1 GF320 /MOV_0184.mp4		CNX - 1. Zachweija Changed selector plate (plastic to CNX - 3. Zachweija **Fishing Operation on H Well, ti	aluminum). hus it & associated equipme
44OV_92960 mp4	controller		6/29/2018	6/29/2018	6/29/2018	GF320/MOV_0185.mp4 Camera #1 GF320 /MOV_0184.mp4		CNX - 1. Zachweija Changed selector plate (plastic to CNX - 3. Zachweija **Fishing Operation on H Well, ti	aluminum). hus it & associated equipme
MOV_92960 mp4	controller		6/29/2018	6/29/2018	6/29/2018	GF320/MOV_0185.mp4 Camera #1 GF320 /MOV_0184.mp4		CNX - 1. Zachweija Changed selector plate (plastic to CNX - 3. Zachweija **Fishing Operation on H Well, ti	aluminum). hus it & associated equipme
MOV_92960 mp4	controller		6/29/2018	6/29/2018	6/29/2018	GF320/MOV_0185.mp4 Camera #1 GF320 /MOV_0184.mp4		CNX - 1. Zachweija Changed selector plate (plastic to CNX - 3. Zachweija **Fishing Operation on H Well, ti	aluminum). hus it & associated equipme
MOV_92960 mp4	controller		6/29/2018	6/29/2018	6/29/2018	GF320/MOV_0185.mp4 Camera #1 GF320 /MOV_0184.mp4		CNX - 1. Zachweija Changed selector plate (plastic to CNX - 3. Zachweija **Fishing Operation on H Well, ti	aluminum). hus it & associated equipme
44OV_92960 mp4	controller		6/29/2018	6/29/2018	6/29/2018	GF320/MOV_0185.mp4 Camera #1 GF320 /MOV_0184.mp4		CNX - 1. Zachweija Changed selector plate (plastic to CNX - 3. Zachweija **Fishing Operation on H Well, ti	aluminum). hus it & associated equipme
MOV_92960 mp4	controller		6/29/2018	6/29/2018	6/29/2018	GF320/MOV_0185.mp4 Camera #1 GF320 /MOV_0184.mp4		CNX - 1. Zachweija Changed selector plate (plastic to CNX - 3. Zachweija **Fishing Operation on H Well, ti	aluminum). hus it & associated equipme

		CN	X Gas - OH O	perations -	LDAR Trackir	ng Spreadsheet			
acility Surveyed:	SWITZ-18	Wind Speed:	1.2-3	2 mph	Well Name:	Well API#:	TIL Date:	Well Type	Dry/Wet
ate of Survey:	6/25/2018	Ambient Temp:	73	2β	SWITZ-18BHSU	34111247630000	2/15/2018	Utica	Dry
	Kevin Ice (Camera 1) & Jason Harding (Camera #2)	Sky Conditions:	Clo	udy	SWITZ-18DHSU	34111247640000	2/15/2018	Utica	Dry
arveyed by:	kevinice@cnx.com	Daily Verification Check:	Distance of 49 ft	using 1.5 (lom)	SWITZ-18FHSU	34111247620000	2/15/2018	Utica	Dry
	Mobile # (724) 833-3947	- Dany vernication Check:	Methane MCV_(9154.mg4					
		Survey Start Time :	3,44	p.m.					
		Survey End Time :	3:58				Equ	ipment Surveyed:	
		OGI Camera Specs:	GF320 S/N	44401741		GPU	Well Head	Tank	Other
ere there deviations from the	monitoring plan (Yes/No):	No							
Component Tag # / FLIR Video ID	Description of Component	Comments	First Attempt at Repair	Date Repair Completed	Follow up Demonstration Conducted	Instrument Used for Resurvey/ FLIR Video ID	Delay of Repair Notes	Note	5:
MOV_92963 mp4	F well GPU - leak at ball vaive center kimray	Camera #2	6/29/2018	6/29/2018	6/29/2018	GF320 /MOV_0183 mp4 Camera #1		Thread sesiant added and tightened	. CNX - J. Zachweija
MOV_92964.mp4	D well GPU - leak at nipple on fuel gas for center kimray	Camera #2	6/29/2018	6/29/2018	6/29/2018	GF320 /MOV_0182.mp4 Camera #3		Thread sealant added and tightened	. CNX - J. Zachweija

		CNX	Gas - OH O	perations -	LDAR Trackir	ng Spreadsheet			
acility Surveyed:	SWITZ-26	Wind Speed:	1-3.7	mph	Well Name:	Well API #:	TIL Date:	Well Type	Dry/Wet
ate of Survey:	6/25/2018	Ambient Temp:	73	r.	SWITZ-26AHSU	34111247210000	11/19/2017	Utica	Dry
1	Kevin Ice (Camera 1) & Jason Harding (Camera #2)	Sky Conditions:	Over	rcast	SWITZ-26BHSU	34111247200000	11/20/2017	Utica	Dry
irveyed by:	kevinice@cnx.com		Distance of 49 ft.	using 1.5 (lom)	SWITZ-26CHSU	34111247190000	11/17/2017	Utica	Dry
	Mobile # (724) 833-3947	Daily Verification Check:	Merhane MOV 0		SWITZ-26DHSU	34111247180000	11/20/2017	Utica	Dry
		Survey Start Time :	2:39	pm.	***************************************				·
		Survey End Time :	2.57	p.m.			Equi	pment Surveyed:	
		OGI Camera Specs:	GF320 S/N	44401741		GPU	Well Head	Tank	Other
		<u> </u>	•			Х	Χ	×	X
					Follow up				
omponent Tag # / FLIR Video ID	Description of Component	Comments	First Attempt at Repair	Date Repair Completed	Demonstration	Instrument Used for Resurvey/ FLIR Video ID	Delay of Repair Notes	No	ites:
	Description of Component	Comments					Delay of Repair Notes		ites: d during inspection
	Description of Component	Comments			Demonstration		Delay of Repair Notes		d during inspection
	Description of Component	Comments			Demonstration		Delay of Repair Notes	No leaks observed Camera #2 S/N 474401208 GRIZO Daily verification check complete	d during inspection

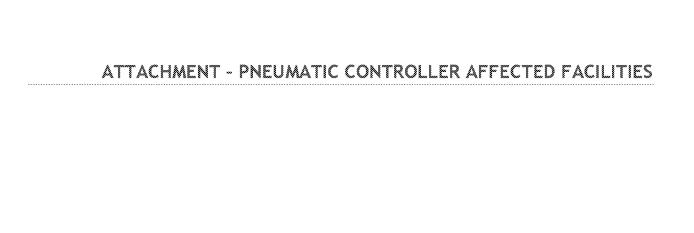
						<u></u>			
icility Surveyed:	SWITZ-28	Wind Speed:	0-5.1	mph	Well Name:	Well API #:	TIL Date:	Well Type	Dry/Wet
ite of Survey:	6/25/2018	Ambient Temp:	73	*F	SWITZ-28BHSU	34111246740000	2/26/2018	Utica	Dry
	Kevin Ice (Camera 1) & Jason Harding (Camera #2)	Sky Conditions:	Cio	ady	SWITZ-28DHSU	34111246750000	2/26/2018	Utica	Dry
rveyed by:	kevinice@cnx.com	Daily Verification Check:	Distance of 49 ft.	using 1.5 (lom)	SWITZ-28FHSU	34111246720000	2/27/2018	Utica	Dry
	Mobile # (724) 833-3947		Merhane MOV_0		SWITZ-28HHSU	34111246730000	2/26/2018	Utica	Dry
		Survey Start Time :		p.m.					
		Survey End Time :	2:07					pment Surveyed:	
		OGI Camera Specs:	GF320 S/N	44401741		GPU X	Well Head X	Tank x	Other X
ere there deviations from the	monitoring plan (Yes/No):	No.							
. T. W. I. Frances			First Attempt	Date Repair	Follow up	Instrument Used for			
omponent Tag # / FLIR Video ID	Description of Component	Comments	at Repair	Completed	Demonstration Conducted	Resurvey/ FLIR Video ID	Delay of Repair Notes	Notes:	
	Description of Component B well GPU center Cabinet kimray	Comments Camera #2					Delay of Repair Notes Resurvey = MOV_0187.mp4 Camera #1	Notes: Changed pilot selector plate (plastic t CNX - I. Zachweija	o aluminum)
ID			at Repair	Completed	Conducted	Resurvey/ FLIR Video ID GF320 / MOV_0187.mp4	Resurvey = MOV_0187.mp4	Changed priot selector plate (plastic t	
ID			at Repair	Completed	Conducted	Resurvey/ FLIR Video ID GF320 / MOV_0187.mp4	Resurvey = MOV_0187.mp4	Changed pilot selector plate (plastic t CNX - i. Zachweija	
ID			at Repair	Completed	Conducted	Resurvey/ FLIR Video ID GF320 / MOV_0187.mp4	Resurvey = MOV_0187.mp4	Changed pilot selector plate (plastic t CNX - i. Zachweija	
ID			at Repair	Completed	Conducted	Resurvey/ FLIR Video ID GF320 / MOV_0187.mp4	Resurvey = MOV_0187.mp4	Changed pilot selector plate (plastic t CNX - i. Zachweija	



Pnuematic Controller Affected Facilities

§60.5420(b)(4) and §60.5420a(b)(4)

Controller ID Number	Facility Name	State	Location	Make	Model	Month-Year Constructed	Month-Year Replaced



Pneumatic Pump Affected Facilities 60.5420a(b)(8)

Facility	Equipment Name	Method of Compliance	Professional Engineer Certification Attached?
None			

ATTACHMENT - DEVIATIONS

Deviations

§60.5420(b)(2-4)(ii); (5-6)(iii) and §60.5420a(b)(2-4)(ii); (5-6)(iii)

Facility	Equipment Name	Explanation

^{1.} LDAR deviations noted on the LDAR Summary Table.